**Science Home Learning**

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| **Lesson 3 – Magnetism Revision** |
| **Year: 11**  | **Topic: Physics** |
| **Unit: Magnetism & Electromagnetism** | **Date Set:**  |
| Information to read/watch:Oak Academy:<https://classroom.thenational.academy/units/electricity-and-magnetism-ab64>Seneca:<https://app.senecalearning.com/classroom/course/fe56ca00-05aa-11e8-9a61-01927559cfd5/section/0fe18250-05ca-11e8-a9c0-bbcf210a0d3d/session>Tasks:1. What is produced when a current flows through a conducting wire?
2. Name two factors which will impact on your answer to question 1.
3. What is a solenoid?
4. Describe the magnetic field inside a solenoid.
5. State three ways of increasing the strength of the magnetic field produced by a solenoid.
6. Draw the magnetic field pattern produced by a solenoid.
7. What is an electromagnet?

Additional Websites:https://youtu.be/SCnGfE7qxHc[Magnetism and electromagnetism - GCSE Science Revision - AQA Trilogy - BBC Bitesize](https://www.bbc.co.uk/bitesize/topics/zwkww6f)Answers: 1. What is produced when a current flows through a conducting wire?

Magnetic field.1. Name two factors which will impact on your answer to question 1.

Current flowing through the wire, distance from the wire.1. What is a solenoid?

Coil of wire in which a magnetic field is created by passing a current though it. 1. Describe the magnetic field inside a solenoid.

Strong and uniform.1. State three ways of increasing the strength of the magnetic field produced by a solenoid.

Increase the current 1. Draw the magnetic field pattern produced by a solenoid.

1. What is an electromagnet?

Solenoid with an iron core. |